



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# INDEX 1918

- abacura, Farancia, p. 26, 33.  
 Abastor erythrogrammus, p. 26.  
 abbreviata, Xystaema, p. 64.  
 abildgaardi, Sparisoma, p. 71.  
 Abramis crysoleucas, p. 90.  
 Abudefduf antijerius, p. 64.  
     coelestinus, p. 64.  
     saxatilis, p. 64.  
 acanthias, Squalus, p. 53.  
 Acris gryllus, p. 21, 51.  
 adamanteus, Crotalus, p. 33.  
 aeneus, Myoxocephalus, p. 55.  
     Plethodon, p. 19.  
 aepyptera, Lampetra, p. 94.  
 aepypterus, Entosphenus, p. 91.  
 aestivalis, Pomolobus, p. 54.  
 aestivus, Opheodrys, p. 25, 32, 66.  
 Agkistrodon mokasen, p. 24.  
     piscivorus, p. 24, 33.  
 albus, Monopterus, p. 62.  
 alleganiensis, Cryptobranchus, p. 18.  
 Allen, G. M., p. 13.  
 Ambassis ambassis, p. 63.  
 Ambystoma, p. 12.  
 Ambystoma jeffersonianum, p. 20.  
     maculatum, p. 20, 50, 82.  
     opacum, p. 20.  
     tigrinum, p. 20, 79.  
 Ameiurus nebulosus, p. 11, 90.  
 americanus, Bufo, p. 13, 20, 42, 50, 67, 78, 83.  
     Pseudopleuronectes, p. 38.  
 Amia bifasciata, p. 63.  
     exostigma, p. 63.  
     fleuriu, p. 63.  
     frenata, p. 63.  
     jenkinsi, p. 63.  
     kalloptera, p. 63.  
     koilomatadon, p. 63.  
     leptacantha, p. 63.  
     quadrifasciata, p. 63.  
     savayensis, p. 63.  
     versicolor, p. 63.  
 amoenus, Carphophis, p. 27.  
 Amphiuma means, p. 18.  
 Anabas testudineus, p. 64.  
 anchorago, Choerodon, p. 64.  
 Anchovia commersonii, p. 62.  
 anchovia, Sardinella, p. 46.  
 Anchoviella argyrophana, p. 54.  
 aneus, Argyrosomus, p. 64.  
 Anguilla mauritiana, p. 62.  
     rostrata, p. 90.  
 Anodontostoma chacunda, p. 62.  
 Anolis carolinensis, p. 31.  
 anomalum, Campostoma, p. 75.  
 Anoplopoma fimbria, p. 29.  
 anthracinus, Plestiodon, p. 36.  
 antjerius, Abudefduf, p. 64.  
 Apogon sp., see Amia sp.  
 Archamia zosterophora, p. 63.  
 arcus, Ostracion, p. 65.  
 arenicolor, Hyla, p. 79.  
 argus, Scatophagus, p. 64.  
 argyrophana, Anchoviella, p. 54.  
 argyrophanes, Saurida, p. 62.  
 Argyrosomus aneus, p. 64.  
     goldmani, p. 64.  
 armata, Citula, p. 63.  
 Aromochelys odoratus, p. 16.  
 aruanus, Dascyllus, p. 64.  
 Ascaphus truei, p. 10.  
 Atractoscion nobilis, p. 30.  
 atromaculatus, Semotilus, p. 90.  
 atronasus, Rhinichthys, p. 90.  
 auratus, Ca'assius, p. 62.  
 auriga, Chaetodon, p. 64.  
 aurita, Sardinella, p. 46.  
 auritus, Lepomis, p. 91.  
 Babcock, H. L., p. 15.  
 baconensis, Xystaema, p. 64.  
 Balistapus undulatus, p. 64.  
 Balistes vetula, p. 47.  
     vetula trinitatis, p. 47.  
 Barbour, T., p. 2, 13, 14.  
 bataviensis, Thysanophrys, p. 65.  
 Batchelder, C. F., p. 13.  
 batrachus, Clarias, p. 62.  
 bauri, Kinosternon, p. 30.  
     Terrapene, p. 31.  
 Belone, p. 2.  
 Bentley, G. H., p. 84.  
 berda, Sparus, p. 64.  
 biaculeatus, Gastrotekeus, p. 62.  
 bifasciata, Amia, p. 63.  
 bilinearis, Merluccius, p. 53, 55.  
 bilineatus, Scolopsis, p. 64.  
 binoculata, Raja, p. 3.  
 Bishop, S. C., p. 36.  
 bislineata, Eurycea, p. 19, 50, 83.  
 blandingi, Emys, p. 16.  
 Blenniidae, p. 71.  
 blochii, Triacanthus, p. 64.  
 Boleosoma nigrum olmstedii, p. 91.

- bontoides, *Epinephelus*, p. 63.  
 boops, *Selar*, p. 63.  
 boro, *Pisodonophis*, p. 62.  
 Brevoortia tyrannus, p. 53, 54.  
 Brewster, W., p. 13.  
 Brimley, C. S., p. 92, 97.  
 Bufo americanus, p. 13, 20, 42, 50, 67, 78, 83.  
   compactilis, p. 78.  
   fowleri, p. 13, 20, 40, 88.  
   woodhousei, p. 78.  
 buruensis, *Priopus*, p. 63.  
 Butis butis, p. 65.  
 butleri, *Thamnophis*, p. 56.  
 caeruleaureus, *Caesio*, p. 63.  
 caerulea, *Sardinella*, p. 45.  
 caeruleus, *Chromis*, p. 64.  
 Caesio caeruleaureus, p. 63.  
 calcarifer, *Lates*, p. 63.  
 californicus, *Cypselurus*, p. 85.  
 callarias, *Gadus*, p. 55.  
 Campostoma anomalum, p. 75.  
 cancrivorus, *Pisodonophis*, p. 62.  
 caninus, *Pentapus*, p. 64.  
 canis, *Mustelus*, p. 53.  
 cantoris, *Hemi-amphus*, p. 62.  
 Carangoides oblongus, p. 63.  
 Caranx boops—see *Selar*  
   crysos, p. 55.  
   djeddaba, p. 63.  
   hasseltii, p. 63.  
   ignobilis, p. 63.  
   kalla, p. 63.  
   leptolepis, p. 63.  
   sexfasciatus, p. 63.  
 Carassius auratus, p. 62.  
 Carcharhinus commersonii—see *lamia*  
   and *obscurus*  
   *lamia*, p. 13.  
   *limbatus*, p. 13.  
   *milberti*, p. 13.  
   *obscurus*, p. 13.  
 Caretta caretta, p. 22.  
   kempi, p. 75.  
 Carettochelys, p. 16.  
 carolina, *Terrapene*, p. 22, 31, 67.  
 carolinensis, *Anolis*, p. 31.  
   *Gastrophyrne*, p. 22.  
 carolinus, *Prionotus*, p. 55.  
 Carphophis amoenus, p. 27.  
 castaneus, *Ichthyomyzon*, p. 94.  
 cataractae, *Rhinichthys*, p. 90.  
 catenatus, *Sistrurus*, p. 67.  
 catesbeiana, *Rana*, p. 21, 51, 97.  
 Catonotus cragini, p. 73.  
 Catostomus commersonii, p. 90.  
   *commersonii sucklii*, p. 75.  
   *nigricans*, p. 90.  
 caudimaculatus, *Tylosurus*, p. 62.  
 celebicus, *Hepatus*, p. 64.  
 Cernophora coccinea, p. 33.  
 centrata concentrica, *Malaclemys*, p. 23.  
 Cephalacanthus volitans, p. 55.  
 ceramensis, *Gobiodon*, p. 65.  
 cerastes, *Crotalus*, p. 35.  
 chacunda, *Anodontostoma*, p. 62.  
 Chaetodon auriga, p. 64.  
   *fasciatus*, p. 64.  
   *ocellatus*, p. 39.  
   *punctato-fasciatus*, p. 64.  
   *trifasciatus*, p. 64.  
 Chanos chanos, p. 62.  
 Cheilio inermis, p. 64.  
 Cheilodinterus lineatus, p. 63.  
 Cheiloprion labiatus, p. 64.  
 Chelonia imbricata, p. 15.  
 Chelopus guttatus, p. 7.  
 Chelydra serpentina, p. 22, 30.  
 Chiloscyllium indicum, p. 62.  
 chinensis, *Pristigaster*, p. 61.  
   *Zunasia*, p. 61.  
 Chirocentrus dorab, p. 62.  
 chirtah, *Lutianus*, p. 63.  
 Choerodon anchorago, p. 64.  
 Chromis caeruleus, p. 64.  
 Chrysemys picta, p. 22, 31, 50.  
 cinerea evittata, *Hyla*, p. 21.  
 cinereus, *Muraenesox*, p. 62.  
   *Plethodon*, p. 8, 19, 82.  
 Cinosternum pennsylvanicum, p. 15.  
 Citula armata, p. 63.  
 clamitans, *Rana*, p. 21, 51, 67, 83, 84, 97.  
 Clarias batrachus, p. 62.  
 Clemmys guttata, p. 22, 67—see *Che-*  
   *lopus*.  
   *insculpta*, p. 66.  
   *muhlenbergii*, p. 5, 15.  
 Clupea harengus, p. 53.  
 Cnemidophorus sexlineatus, p. 23, 31.  
   *tesselatus*, p. 51.  
 coccinea, *Cemophora*, p. 33.  
 coelestinus *Abudefduf*, p. 64.  
 Coleonyx variegatus, p. 34.  
 Colors of fishes, p. 68.  
 Coluber constrictor, p. 26, 32, 66, 76, 97.  
   *flagellum*, p. 32.  
 commerson, *Scomberomorus*, p. 63.  
 commersonii, *Anchovia*, p. 62.  
   *Catostomus*, p. 90.  
 comersonii sucklii, *Catostomus*, p. 75.  
 compactilis, *Bufo*, p. 78.  
 concinna, *Pseudemys*, p. 23.  
 concolor, *Ichthyomyzon*, p. 93.  
 conger, *Leptocephalus*, p. 53.  
 constrictor, *Coluber*, p. 26, 32, 66, 76, 97.  
   *flagellum*, p. 32.  
 contortrix, *Heterodon*, p. 25, 33, 66.  
 contortrix niger, *Heterodon*, p. 33.  
 corais couperi, *Drymarchon*, p. 32.  
 corallicola, *Pharopteryx*, p. 63.  
 corallinus, *Siganus*, p. 64.  
 cordyla, *Megalaspis*, p. 63.  
 cornutum, *Ostracion*, p. 65.  
   *Phrynosoma*, p. 14.  
 cornutus, *Holocentrus*, p. 63.  
   *Notropis*, p. 90.  
   *Zanclus*, p. 64.  
 Coryphaena hippurus, p. 69.  
 Corythoichthys spicifer, p. 62.  
 Corvichthys diemensis, p. 65.  
 cragini, *Catonotus*, p. 73.  
 crameri, *Leuresthes*, p. 45.  
 crocodilus, *Thysanophrys*, p. 65.  
 Crotalus adamanteus, p. 33.  
   *cerastes*, p. 35.  
   *horridus*, p. 24.  
 crucifer, *Hyla*, p. 21, 51.  
 crumenophthalmus, *Selar*, p. 63.  
   *Trachurrops*, p. 55.  
 Cryptobranchus alleganiensis, p. 18.  
 crysoleucas, *Abramis*, p. 90.  
 crysos, *Caranx*, p. 55.  
 cyclopion, *Natrix*, p. 32.  
 Cyclopterus lumpus, p. 55.  
 Cynoglossus quadrilineatus, p. 65.  
   *sumatrensis*, p. 65.  
 Cyprinidae, p. 69.  
 Cyprinodon variegatus, p. 39.  
 cyprinoides, *Megalops*, p. 62.  
 Cypselurus californicus, p. 85.  
 Dampieria melanotaenia, p. 64.  
 Dascyllus aruanus, p. 64.  
   *trimaculatus*, p. 64.  
 Decapterus kurra, p. 63.  
   *punctatus*, p. 54.  
 Deckert, R. F., p. 33.  
 decussatus, *Lutianus*, p. 63.

- Deirochelys reticulata*, p. 31.  
*dekayi*, *Storeria*, p. 25, 32.  
*Dermatogenys viviparus*, p. 62.  
*Desmognathus fusca*, p. 19, 65, 67.  
*monticola*, p. 19.  
*quadramaculata*, p. 19.  
*Deveximentum insidiator*, p. 63.  
*ruconius*, p. 63.  
*diadema*, *Holocentrus*, p. 62.  
*Diadophis punctatus*, p. 27, 32.  
*diaphanus*, *Fundulus*, p. 90.  
*didactylum*, *Inimicus*, p. 65.  
*diemensis*, *Coryzichthys*, p. 65.  
*dispar*, *Zenarchopterus*, p. 62.  
*djeddaba*, *Caranx*, p. 63.  
*djiddensis*, *Rhynchobatis*, p. 62.  
*dolomieu*, *Micropterus*, p. 91.  
*do-ab*, *Chirocentrus*, p. 62.  
*dorsatus*, *Petromyzon*, p. 93.  
*douglassii*, *Phrynosoma*, p. 91.  
*Drepane punctata*, p. 64.  
*Drymarchon corais couperi*, p. 32.  
*Dunn*, E. R., p. 12, 13, 16, 76.  
*dussumieri*, *Sciaena*, p. 64.  
*Dussumieria hasseltii*, p. 62.  
*Echeneis naucrates*, p. 65.  
*eiseni*, *Tantilla*, p. 34.  
*Elaphe guttata*, p. 25, 32.  
*obsoleta*, p. 25.  
*quadrivittata*, p. 32.  
*elapsoides*, *Lampropeltis*, p. 26, 32.  
*Elates thompsoni*, p. 65.  
*Eleotris fusca*, p. 65.  
*Ellis*, M. M., p. 75.  
*elongata*, *Ilisha*, p. 61.  
*Elops hawaiiensis*, p. 62.  
*saurus*, p. 53.  
*Emys blandingi*, p. 16.  
*orbicularis*, p. 16.  
*Englehardt*, G. P., p. 80.  
*Entosphenus acypterus*, p. 91.  
*Epinephelus bontoides*, p. 63.  
*fasciatus*, p. 63.  
*maculatus*, p. 63.  
*equula*, *Leiognathus*, p. 63.  
*eregoodoo-tenke*, *Mobula*, p. 62.  
*Eriolepis zonifer*, p. 29.  
*Erimyzon succetta oblongus*, p. 90.  
*erumei*, *Psettodes*, p. 65.  
*erythrogrammus*, *Abastor*, p. 26.  
*Esox estor*, p. 81.  
*lucius*, p. 81.  
*reticulatus*, p. 81, 90.  
*tridecemlineatus*, p. 81.  
*estor*, *Esox*, p. 81.  
*Etrumeus sadina*, p. 53.  
*Eurycea bislineata*, p. 19, 50, 83.  
*guttolineata*, p. 19.  
*longicauda*, p. 20.  
*rubra*, see *Pseudotriton*.  
*Evenchelys macrurus*, p. 62.  
*Evermann*, B. W., p. 51, 67, 83.  
*Exocoetidae*, p. 69.  
*Exoglossum maxillingua*, p. 90.  
*exostigma*, *Amia*, p. 63.  
*far*, *Hemiramphus*, p. 62.  
*Farancia abacura*, p. 26, 33.  
*fasciatus*, *Chaetodon*, p. 64.  
*Epinephelus*, p. 63.  
*Leiognathus*, p. 63.  
*Plestiodon*, p. 24, 31, 36.  
*feriarum*, *Pseudacris*, p. 20.  
*ferox*, *Trionyx*, p. 31.  
*ferruginea*, *Limanda*, p. 38.  
*fimbria*, *Anoplopoma*, p. 29.  
*fimbriata*, *Sardinella*, p. 62.  
*Fisher*, G. C., p. 65.  
*Fistularia serrata*, p. 62.  
*fiabellaris*, *Poecilichthys*, p. 91.  
*flagellum*, *Coluber*, p. 32.  
*Flammeo sammara*, p. 63.  
*flavescens*, *Perca*, p. 91.  
*fleurieu*, *Amia*, p. 63.  
*floridana*, *Pseudemys*, p. 31.  
*fontinalis*, *Salvelinus*, p. 90.  
*Fowler*, H. W., p. 12, 65, 84, 91.  
*fowleri*, *Bufo*, p. 13, 20, 40, 88.  
*frenata*, *Amia*, p. 63.  
*fulvius*, *Micrurus*, p. 33.  
*Fundulus diaphanus*, p. 90.  
*zebrinus*, p. 75.  
*fusca*, *Desmognathus*, p. 19, 65, 67.  
*Eleotris*, p. 65.  
*fuscescens*, *Siganus*, p. 64.  
*fuscus*, *Salarias*, p. 65.  
*Gadus callarias*, p. 55.  
*Gastrophyrne carolinensis*, p. 22.  
*Gastrotokeus biaculeatus*, p. 62.  
*Gazza minuta*, p. 63.  
*geographica*, *Graptemys*, p. 23.  
*getulus*, *Lampropeltis*, p. 26, 73, 97.  
*gibbosum*, *Ostracion*, p. 65.  
*gibbosus*, *Pomotis*, p. 91.  
*giuris*, *Glossogobius*, p. 65.  
*glauca*, *Isuropsis*, p. 45.  
*Glossogobius*, *giuris*, p. 65.  
*glutinosus*, *Plethodon*, p. 19.  
*Gobiodon ceramensis*, p. 65.  
*Gobius ornatus*, p. 65.  
*goldmani*, *Argyrosomus*, p. 64.  
*Gopherus polyphemus*, p. 31.  
*graciosa*, *Uta*, p. 34.  
*Graptemys geographica*, p. 23.  
*pseudogeographica*, p. 23.  
*gryllus*, *Acris*, p. 21, 51.  
*guamensis*, *Sebastes*, p. 65.  
*gunnellus*, *Pholis*, p. 55.  
*guttata*, *Clemmys*, p. 22, 67.  
*Elaphe*, p. 25, 32.  
*guttatus*, *Chelopus*, p. 7.  
*guttolineata*, *Eurycea*, p. 19.  
*Gyrinophilus*, p. 12.  
*Gyrinophilus porphyriticus*, p. 19.  
*Halichaeres leparensis*, p. 64.  
*hamiltoni*, *Thriassoles*, p. 62.  
*hammondi hammondi*, *Scaphiopus*, p. 77.  
*harak*, *Lethrinus*, p. 64.  
*Harengula*, p. 46.  
*harengus*, *Clupea*, p. 53.  
*hasseltii*, *Caranx*, p. 63.  
*Dussumieria*, p. 62.  
*hasta*, *Pomadasis*, p. 63.  
*haumela*, *Trichiurus*, p. 63.  
*hawaiiensis*, *Elops*, p. 62.  
*Helotes sexlineatus*, p. 63.  
*Hemidactylum scutatum*, p. 7, 18.  
*Hemiochus varius*, p. 64.  
*Hemipteronotus pentadactylus*, p. 64.  
*Hemiramphus*, p. 1.  
*Hemiramphus cantoris*, p. 62.  
*far*, p. 62.  
*limbatus*, p. 62.  
*quoyi*, p. 62.  
*Hepatus celebicus*, p. 64.  
*Heterodon contortrix*, p. 25, 33, 66.  
*Heterodon contortrix niger*, p. 33.  
*Heterodon simus*, p. 33.  
*hippurus*, *Coryphana*, p. 69.  
*Histrio histrio*, p. 69.  
*hoevenii*, *Ilisha*, p. 62.  
*holbrookii*, *Scaphiopus*, p. 44.  
*Holocentrus cornutus*, p. 63.  
*diadema*, p. 62.  
*ruber*, p. 62.  
*horridus*, *Crotalus*, p. 24.  
*Hubbs*, C. L., p. 43, 88.  
*humilis*, *Siagonodon*, p. 34.

- Hybopsis kentuckiensis*, p. 90.  
*Hyla arenicolor*, p. 79.  
*cinerea evittata*, p. 21.  
*crucifer*, p. 21, 51.  
*squirella*, p. 21.  
*versicolor*, p. 20, 79, 83.  
*Hyporhamphus roberti*, p. 54.  
*hypseloptera*, *Petrosciartes*, p. 65.  
*Hypsigena ochrohynchus*, p. 83.  
*Ichthyomyzon castaneus*, p. 94.  
*concolor*, p. 93.  
*ignobilis*, *Caranx*, p. 63.  
*Ilisha*, p. 61.  
*Ilisha elongata*, p. 61.  
*hoevenii*, p. 62.  
*megalopectera*, p. 61.  
*imbricata*, *Chelonia*, p. 15.  
*indica*, *Scyris*, p. 63.  
*indicum*, *Chiloscyllium*, p. 62.  
*indicus*, *Platycephalus*, p. 65.  
*inermis*, *Cheilio*, p. 64.  
*Inimicus didactylum*, p. 65.  
*inornata*, *Raja*, p. 3.  
*insculpta*, *Clemmys*, p. 66.  
*insidiator*, *Deveximentum*, p. 63.  
*insignis*, *Schilbeodes*, p. 90.  
*Isuropsis glauca*, p. 45.  
*Jaffa*, *B. B.*, p. 75.  
*japonicus*, *Nemipterus*, p. 63.  
*jarbua*, *Therapon*, p. 63.  
*javanicus*, *Pseudorhombus*, p. 65.  
*javus*, *Siganus*, p. 64.  
*jeffersonianum*, *Ambystoma*, p. 20.  
*jenkinsi*, *Amia*, p. 63.  
*johni*, *Lutianus*, p. 63.  
*Jordan*, *D. S.*, p. 30, 46, 61, 81, 96.  
*kalla*, *Caranx*, p. 63.  
*kalloptera*, *Amia*, p. 63.  
*kapas*, *Xystaema*, p. 64.  
*kempi*, *Caretta*, p. 75.  
*kentuckiensis*, *Hybopsis*, p. 90.  
*Kinosternon bauri*, p. 30.  
*odoratum*, p. 22, 30—see *Aromochelys*.  
*pennsylvanicum* — see *Cinisternum*.  
*subrubrum*, p. 22.  
*koilomatadon*, *Amia*, p. 63.  
*kurra*, *Decapterus*, p. 63.  
*labiatus*, *Cheiloplorion*, p. 64.  
*labiosa*, *Liza*, p. 62.  
*lacertina*, *Siren*, p. 18.  
*Lactarius lactarius*, p. 63.  
*lamia*, *Carcharhinus*, p. 13.  
*Lampetra aepyptera*, p. 94.  
*wilderi*, p. 95.  
*Lampropeltis*, p. 60.  
*Lampropeltis elapsoides*, p. 26, 32.  
*getulus*, p. 26, 33, 97.  
*rhombomaculata*, p. 26.  
*triangulum*, p. 26.  
*triangulum amaura*, p. 33.  
*langsar*, *Sphvraena*, p. 62.  
*laterale*, *Leiopolisma*, p. 23, 31, 36.  
*lates calcarifer*, p. 63.  
*Latham*, *R.*, p. 56, 88.  
*Leiognathus equula*, p. 63.  
*fasciatus*, p. 63.  
*splendens*, p. 63.  
*Leiopolisma laterale*, p. 23, 31, 36.  
*leiuroides*, *Tylosurus*, p. 62.  
*leparensis*, *Halichoeres*, p. 64.  
*Leonis auritus*, p. 91.  
*leptacantha*, *Amia*, p. 63.  
*Leptocephalus conger*, p. 53.  
*leptolepis*, *Caranx*, p. 63.  
*Lethrinus harak*, p. 64.  
*leutjanus*, p. 64.  
*mahsena*, p. 64.  
*moensi*, p. 64.  
*Leuresthes crameri*, p. 45.  
*tenuis*, p. 46.  
*leutjanus*, *Lethrinus*, p. 64.  
*Lile stolidifera*, p. 46.  
*Limanda ferruginea*, p. 38.  
*limbatus*, *Carcharhinus*, p. 13.  
*Hemi amphus*, p. 62.  
*lineatus*, *Cheilodipterus*, p. 63.  
*Plectorhynchus*, p. 64.  
*lineolatus*, *Lutianus*, p. 63.  
*Liopeltis vernalis*, p. 27, 82.  
*lividus*, *Pomacentrus*, p. 64.  
*Liza labiosa*, p. 62.  
*waigiensis*, p. 62.  
*longicauda*, *Eurycea*, p. 20.  
*Lophius piscatorius*, p. 56.  
*Lophopsetta maculata*, p. 56.  
*lucius*, *Esox*, p. 81.  
*lumpus*, *Cyclopterus*, p. 55.  
*lunaris*, *Spheroideus*, p. 65.  
*luteus*, *Nemipterus*, p. 63.  
*Lutianus chirtah*, p. 63.  
*decussatus*, p. 63.  
*johni*, p. 63.  
*lineolatus*, p. 63.  
*vitta*, p. 63.  
*lutensis*, *Notropis*, p. 75.  
*macracantha*, *Xystaema*, p. 64.  
*macrurus*, *Evenchelys*, p. 62.  
*maculata*, *Lophopsetta*, p. 56.  
*maculatum*, *Ambystoma*, p. 20, 50, 82.  
*maculatus*, *Epinephelus*, p. 63.  
*Pomadasis*, p. 63.  
*magna*, *Sturnella*, p. 72.  
*mahsena*, *Lethrinus*, p. 64.  
*Malaclemys centrata concentrica*, p. 23.  
*marinus*, *Petromyzon*, p. 53, 91, 93.  
*Tylosurus*, p. 54.  
*Mark*, *E. L.*, p. 13.  
*marmoratus*, *Siganus*, p. 64.  
*mauritanica*, *Anguilla*, p. 62.  
*maxillingua*, *Exoglossum*, p. 90.  
*means*, *Amphiuma*, p. 18.  
*mediocris*, *Pomolobus*, p. 53.  
*Megalaspis cordyla*, p. 63.  
*Megalops cyprinoides*, p. 62.  
*megalopectera*, *Ilisha*, p. 61.  
*melanoleucus*, *Pituophis*, p. 24, 32, 35, 92.  
*melanosticta*, *Sardinia*, p. 46.  
*melanotaenia*, *Dampiera*, p. 64.  
*Merluccius bilinearis*, p. 53, 55.  
*Mesopristes plumbeus*, p. 63.  
*microlepidotus*, *Scomber*, p. 63.  
*Micropterus dolomieu*, p. 91.  
*Micrurus fulvius*, p. 33.  
*milberti*, *Carcharhinus*, p. 13.  
*millarius*, *Sistrurus*, p. 33.  
*minuta*, *Gazza*, p. 63.  
*mittchilli*, *Myoxocephalus*, p. 55.  
*Mobula eregoodoo-tenke*, p. 62.  
*moensi*, *Lethrinus*, p. 64.  
*Moesel*, *J.*, p. 68.  
*mokasen*, *Agkistrodon*, p. 24.  
*Monacanthus surothura*, p. 64.  
*Monopterus albus*, p. 62.  
*monterevisis*, *Raja*, p. 2.  
*monticola*, *Desmognathus*, p. 19.  
*muhlenbergii*, *Clemmys*, p. 5, 15.  
*Muraenesox cinereus*, p. 62.  
*murdian*, *Myripristis*, p. 62.  
*Murphy*, *R. C.*, p. 8, 13, 40.  
*Mustelus canis*, p. 53.  
*Myctophidae*, p. 70.  
*Myoxocephalus aneus*, p. 55.  
*mittchilli*, p. 55.  
*octodecimspinosus*, p. 55.  
*Myripristis murdian*, p. 62.  
*mystax*, *Thriassocles*, p. 62.

- Naso unicornis*, p. 64.  
*Natrix cyclopion*, p. 32.  
*septemvittata*, p. 25.  
*sipidon*, p. 25, 66.  
*sipidon erythrogaster*, p. 32.  
*sipidon fasciata*, p. 32.  
*taxispilota*, p. 32.  
*naucratus*, *Echeneis*, p. 65.  
*nebulosus*, *Ameiurus*, p. 11, 90.  
*Nemipterus japonicus*, p. 63.  
*luteus*, p. 63.  
*nemurus*, *Pentapus*, p. 64.  
*Netuma thalassina*, p. 62.  
*Nichols*, J. T., p. 10, 13, 39, 48, 72.  
*nigricans*, *Catostomus*, p. 90.  
*nigrum olmstedii*, *Boleosoma*, p. 91.  
*nobilis*, *Atractoscion*, p. 30.  
*Noble*, G. K., p. 14.  
*notophthalmus*, *Pomacentrus*, p. 64.  
*Notophthalmus viridescens*, p. 20, 50, 67.  
*Nototrema*, p. 15.  
*Notropis cornutus*, p. 90.  
*lutrensis*, p. 75.  
*photogenis amoenus*, p. 90.  
*procne*, p. 90.  
*whippilii analostanus*, p. 90.  
*oblongus*, *Carangoides*, p. 63.  
*oblongus*, *Paralichthys*, p. 55.  
*obscurus*, *Carcharhinus*, p. 13.  
*obsoleta*, *Elaphe*, p. 25.  
*occipitalis*, *Sonora*, p. 34.  
*occipitomaculata*, *Storeria*, p. 25, 50.  
*ocellatus*, *Chaetodon*, p. 39.  
*ochrorhynchus*, *Hypsigenia*, p. 83.  
*octodecimspinosus*, *Myoxocephalus*, p. 55.  
*octonemus*, *Polydactylus*, p. 54.  
*odoratum*, *Kinosternon*, p. 22, 30.  
*odoratus*, *Aromochelys*, p. 16.  
*olympicus*, *Ranodon*, p. 10.  
*opacum*, *Ambystoma*, p. 20.  
*Opheodrys aestivus*, p. 25, 32, 66.  
*Ophiocephalus striatus*, p. 64.  
*Ophisaurus ventralis*, p. 23, 31.  
*orbicularis*, *Emys*, p. 16.  
*Platax*, p. 64.  
*ornatus*, *Gobius*, p. 65.  
*Osbeckia scripta*, p. 64.  
*Ostracion arcus*, p. 65.  
*cornutum*, p. 65.  
*gibbosum*, p. 65.  
*oxycephalus*, *Triacanthus*, p. 64.  
*Oxyurichthys tentacularis*, p. 65.  
*oyena*, *Xystaema*, p. 64.  
*Pack*, H. J., p. 52, 92.  
*palustris*, *Rana*, p. 67, 83.  
*Paralichthys oblongus*, p. 55.  
*Parker*, G. H., p. 11.  
*pavo*, *Pomacentrus*, p. 64.  
*Pellona*, p. 61.  
*pennsylvanicum*, *Cinosternum*, p. 15.  
*pentadactylus*, *Hemipteronotus*, p. 64.  
*Pentapus caninus*, p. 64.  
*nemurus*, p. 64.  
*Perca flavescens*, p. 91.  
*Petromyzon dorsatus*, p. 93.  
*marinus*, p. 53, 91, 93.  
*Petrosirtes hypseloptera*, p. 65.  
*Pharopteryx corallicola*, p. 63.  
*philippinus*, *Zenarchopterus*, p. 62.  
*Pholis gunnellus*, p. 55.  
*photogenis amoenus*, *Notropis*, p. 90.  
*Phrynosoma cornutum*, p. 14.  
*douglasii*, p. 91.  
*picta*, *Chrysemys*, p. 22, 31, 50.  
*pictus*, *Plectorhynchus*, p. 64.  
*Pinjalo pinjalo*, p. 63.  
*piapiens*, *Rana*, p. 21, 79, 96.  
*piscatorius*, *Lophius*, p. 56.  
*piscivorus*, *Agkistrodon*, p. 24, 33.  
*Pisodonophis boro*, p. 62.  
*cancrivorus*, p. 62.  
*Pituophis melanoleucus*, p. 24, 32, 35, 92.  
*Platax orbicularis*, p. 64.  
*platessa*, *Pleuronectes*, p. 38.  
*Platycephalus indicus*, p. 65.  
*plebius*, *Polydactylus*, p. 64.  
*Plectorhynchus lineatus*, p. 64.  
*pictus*, p. 64.  
*Plestiodon anthracinus*, p. 36.  
*fasciatus*, p. 24, 31, 36.  
*Plethodon aeneus*, p. 19.  
*cinereus*, p. 8, 19, 82.  
*glutinosus*, p. 19.  
*Pleuronectes platessa*, p. 38.  
*Pleuronectidae*, p. 69.  
*plumbeus*, *Mesopristes*, p. 63.  
*Poecilichthys flabellaris*, p. 91.  
*poieti*, *Xystaema*, p. 64.  
*Polydactylus octonemus*, p. 54.  
*plebius*, p. 64.  
*polyphemus*, *Gopherus*, p. 31.  
*Pomacentrus lividus*, p. 64.  
*notophthalmus*, p. 64.  
*pavo*, p. 64.  
*taeniurus*, p. 64.  
*violescens*, p. 64.  
*Pomadasis hasta*, p. 63.  
*maculatus*, p. 63.  
*Pomolobus aestivalis*, p. 54.  
*mediocris*, p. 53.  
*Pomotis gibbosus*, p. 91.  
*Pope*, P. H., p. 97.  
*Poronotus triacanthus*, p. 55.  
*porphyriticus*, *Gyrinophilus*, p. 19.  
*Potamophis striatulus*, p. 25, 32.  
*Priacanthus tavenus*, p. 63.  
*Prionotus carolinus*, p. 55.  
*strigatus*, p. 55.  
*Priopus buruensis*, p. 63.  
*Pristigaster chinensis*, p. 61.  
*procne*, *Notropis*, p. 90.  
*Psammoperca waigiensis*, p. 63.  
*Psettodes erumei*, p. 65.  
*Pseudacris feriarum*, p. 20.  
*Pseudemys concinna*, p. 23.  
*floridana*, p. 31.  
*rubriventris*, p. 15, 23.  
*Pseudochromis tapeinosomus*, p. 64.  
*pseudogeographica*, *Graptomys*, p. 23.  
*Pseudopleiops typus*, p. 64.  
*Pseudopleuronectes americanus*, p. 38.  
*Pseudorhombus javanicus*, p. 65.  
*Pseudotriton ruber*, p. 19.  
*Pterois volitans*, p. 65.  
*punctata*, *Drepane*, p. 64.  
*punctato-fasciatus*, *Chaetodon*, p. 64.  
*punctatum*, *Xystaema*, p. 64.  
*punctatus*, *Decapterus*, p. 54.  
*Diadophis*, p. 27, 32.  
*puta*, *Therapon*, p. 63.  
*pygaea*, *Seminatrix*, p. 32.  
*quadramaculata*, *Desmognathus*, p. 19.  
*quadrifasciata*, *Amia*, p. 63.  
*quadrilineatus*, *Cynoglossus*, p. 65.  
*quadrivittata*, *Elaphe*, p. 32.  
*quiscula*, *Quiscalus*, p. 72.  
*Quiscalus quiscula*, p. 72.  
*quoyi*, *Hemiramphus*, p. 62.  
*Raja binoculata*, p. 3.  
*inornata*, p. 3.  
*montereyensis*, p. 2.  
*rhina*, p. 3.  
*stellulata*, p. 3.  
*Rana catesbeiana*, p. 21, 51, 97.  
*clamitans*, p. 21, 51, 67, 83, 84, 97.

- palustris, p. 67, 83.  
 pipiens, p. 21, 79, 96.  
 septentrionalis, p. 96.  
 virgatipes, p. 21.  
*Ranodon ol ympicus*, p. 10.  
 Redfield, A. C., p. 13.  
 regalis, *Scomberomorus*, p. 54.  
 reticulata, *Deirchelys*, p. 31.  
 reticulatus, *Esox*, p. 81, 90.  
 rhina, Raja, p. 3.  
*Rhinichthys atronasmus*, p. 90.  
 cataractae, p. 90.  
 rhombomaculata, *Lampropeltis*, p. 26.  
*Rhynchobatis djiddensis*, p. 62.  
 roberti, *Hyporhamphus*, p. 54.  
 rostrata, *Anguilla*, p. 90.  
 ruber, *Holocentrus*, p. 62.  
     *Pseudotriton*, p. 19.  
 rubriventris, *Pseudemys*, p. 15, 23.  
 ruconius, *Deveximentum*, p. 63.  
 russelli, *Sciaena*, p. 64.  
 Ruthven, A. G., p. 10, 13, 60.  
 sackeni, *Thamnophis*, p. 31.  
 sadina, *Etrumeus*, p. 53.  
 sagax, *Sardinia*, p. 46.  
 Salaries fuscus, p. 65.  
 Salvelinus fontinalis, p. 90.  
 sammara, *Flammeo*, p. 63.  
 Sarda sarda, p. 54.  
 Sardinia, p. 46.  
 Sardinella, p. 46.  
 Sardinella anchovia, p. 46.  
     aurita, p. 46.  
     caerulea, p. 45.  
     fimbriata, p. 62.  
 Sardinia melanosticta, p. 46.  
     sagax, p. 46.  
 Saurida argvrophanes, p. 62.  
 sauritus, *Thamnophis*, p. 24, 31, 50.  
 saurus, *Elops*, p. 53.  
     *Scomberesox*, p. 54.  
 savayensis, *Amia*, p. 63.  
 saxatilis, *Abudefduf*, p. 64.  
 Scaphiopus hammondi hammondi, p. 77.  
     holbrookii, p. 44.  
 Scatophagus argus, p. 64.  
 Sceloporus undulatus, p. 23, 31, 36, 66.  
 Schilbeodes insignis, p. 90.  
 Schmidt, K. P., p. 13.  
 Sciaena dussumieri, p. 64.  
     russelli, p. 64.  
 Scoliodon walbeehmii, p. 62.  
 Scolopsis bilineatus, p. 63.  
 Scomber microlepidotus, p. 63.  
     scombrus, p. 54, 68.  
 Scomberesox saurus, p. 54.  
 Scomberoides tala, p. 63.  
 toloo-parah, p. 63.  
 Scomberomorus commerson, p. 63.  
     regalis, p. 54.  
 scombrus, *Scomber*, p. 54, 68.  
     scripta, Osbeckia, p. 65.  
     scutatum, *Hemidactylium*, p. 7, 18.  
     Scvris indica, p. 63.  
 Sebastopsis guamensis, p. 65.  
 Selar boops, p. 63.  
     crumenophthalmus, p. 63.  
 Seminatrix ovgaea, p. 32.  
 Semotilus atromaculatus, p. 90.  
 septemvittata, *Natrix*, p. 25.  
 septentrionalis, *Rana*, p. 96.  
 Seriola zonata, p. 54.  
 serpentina, *Chelvdra*, p. 22, 30.  
 serrata, *Fistularia*, p. 62.  
 setirostris, *Thrissocles*, p. 62.  
 sexfasciatus, *Caranx*, p. 63.  
 sexlineatus, *Cnemidophorus*, p. 23, 31.  
 sexlineatus, *Helotes*, p. 63.  
 Siagonodon humilis, p. 34.  
 Siganus corallinus, p. 64.  
     fuscescens, p. 64.  
     javus, p. 64.  
     marmoratus, p. 64.  
     vermiculatus, p. 64.  
 sihama, *Sillago*, p. 64.  
 Sillago sihama, p. 64.  
 simus, *Heterodon*, p. 33.  
 sipedon erythrogaster, *Natrix*, p. 32.  
 sipedon fasciata, *Natrix*, p. 32.  
 sipedon, *Natrix*, p. 25, 66.  
 Siren lacertina, p. 18.  
 sirtalis ordinatus, *Thamnophis*, p. 50.  
 sirtalis, *Thamnophis*, p. 24, 32, 50, 66, 82, 97.  
 Sistrurus catenatus, p. 67.  
     miliarius, p. 33.  
 Sonora occipitalis, p. 34.  
 Sparisoma abildgaa-di, p. 71.  
 Sparus berda, p. 64.  
 Speck, F. G., p. 15, 60.  
 Spheroides lunaris, p. 65.  
 Sphyræna langsar, p. 62.  
 Sphyrna zygaena, p. 53.  
 spicifer, *Corythoichthys*, p. 62.  
 splendens, *Leiognathus*, p. 63.  
 Squalus acanthias, p. 53.  
 squirella, *Hyla*, p. 21.  
 Starks, E. C., p. 5, 45.  
 Stegostoma tigrinum, p. 62.  
 Stejneger, L., p. 14.  
 stellulata, Raja, p. 3.  
 Stephens, F., p. 35.  
 Stethojulis strigiventer, p. 64.  
 stolidifera, *Lile*, p. 46.  
 Storeria dekayi, p. 25, 32.  
     occipitomaculata, p. 25, 50.  
 striatulus, *Potamophis*, p. 25, 32.  
 striatus, *Ophiocephalus*, p. 64.  
 strigatus, *Prionotus*, p. 55.  
 strigiventer, *Stethojulis*, p. 64.  
 Sturnella magna, p. 72.  
 subrubrum, *Kinosternon*, p. 22.  
 succeta oblongus, *Erimyzon*, p. 90.  
 sumatrensis, *Cynoglossus*, p. 65.  
 surothura, *Monacanthus*, p. 64.  
 taeniurus, *Pomacentrus*, p. 64.  
 tala, *Scomberoides*, p. 63.  
 Tantilla eiseni, p. 34.  
 tapeinosomus, *Pseudochromis*, p. 64.  
 taxipilota, *Natrix*, p. 32.  
 tayenus, *Priacanthus*, p. 63.  
 tentacularis, *Oxvurichthys*, p. 65.  
 tenuis, *Leuresthes*, p. 46.  
 Terrapene bauri, p. 31.  
     carolina, p. 22, 31, 67.  
 tessellatus, *Cnemidophorus*, p. 51.  
 testudineus, *Anabas*, p. 64.  
 thalassina, *Netuma*, p. 62.  
 Thamnophis butleri, p. 56.  
     sackeni, p. 31.  
     sauritus, p. 24, 31, 50.  
     sirtalis, p. 24, 32, 50, 66, 82, 97.  
     sirtalis ordinatus, p. 50.  
 Therapon jarbua, p. 63.  
     puta, p. 63.  
     theraps, p. 63.  
 theraps, *Therapon*, p. 63.  
 thompsoni, *Elates*, p. 65.  
 Thrissocles hamiltoni, p. 62.  
     mystax, p. 62.  
     setirostris, p. 62.  
 Thysanophrys bataviensis, p. 65.  
     crocodilus, p. 65.  
 tigrinum, *Ambystoma*, p. 20, 79.  
     Stegostoma, p. 62.  
 toloo-parah, *Scomberoides*, p. 63.  
 Trachurops crumenophthalmus, p. 55.  
 —see Selar.

- Triacanthus blochii*, p. 64.  
     *oxycephalus*, p. 64.  
*triacanthus*, *Poronotus*, p. 55.  
*triangulum amaura*, *Lampropeltis*, p. 33.  
*triangulum*, *Lampropeltis*, p. 26.  
*Trichiurus haumela*, p. 63.  
*tridecemlineatus*, *Esox*, p. 81.  
*trifasciatus*, *Chaetodon*, p. 64.  
*trimaculatus*, *Dascyllus*, p. 64.  
*Trionyx ferox*, p. 31.  
*truei*, *Ascaphus*, p. 10.  
*Tylosurus*, p. 2.  
*Tylosurus caudimaculatus*, p. 62.  
     *leiuroides*, p. 62.  
     *marinus*, p. 54.  
*typus*, *Pseudoplesios*, p. 64.  
*tyrannus*, *Brevoortia*, p. 53, 54.  
*undulatus*, *Balistapus*, p. 64.  
     *Sceloporus*, p. 23, 31, 36, 66.  
*unicornis*, *Naso*, p. 64.  
*Uta graciosa*, p. 34.  
*valeriae*, *Virginia*, p. 27.  
*Van Wagenen*, G., p. 76.  
*variegatus*, *Coleonyx*, p. 34.  
     *Cyprinodon*, p. 39.  
*varius*, *Hemiochus*, p. 64.  
*ventralis*, *Ophisaurus*, p. 23, 31.  
*vermiculatus*, *Siganus*, p. 64.  
*vernalis*, *Liopeltis*, p. 27, 82.  
*versicolor*, *Amia*, p. 63.  
     *Hyla*, p. 20, 79, 83.  
*vetula*, *Balistes*, p. 47.  
*vetula trinitatis*, *Balistes*, p. 47.  
*violascens*, *Pomacentrus*, p. 64.  
*virgatipes*, *Rana*, p. 21.  
*Virginia valeriae*, p. 27.  
*viridescens*, *Notophthalmus*, p. 20, 50, 67.  
*vitta*, *Lutianus*, p. 63.  
*viviparus*, *Dermatogenys*, p. 62.  
*volitans*, *Cephalacanthus*, p. 55.  
     *Pterois*, p. 65.  
*waigiensis*, *Liza*, p. 62.  
     *Psammoperca*, p. 63.  
*walbeehmii*, *Scoliodon*, p. 62.  
*whipplei analostanus*, *Notropis*, p. 90.  
*wilderi*, *Lampetra*, p. 95.  
*woodhousei*, *Bufo*, p. 78.  
*Woodworth*, J. B., p. 14.  
*Wright*, A. H., p. 7, 10, 13, 15.  
*Xystaema abbreviata*, p. 64.  
     *baconensis*, p. 64.  
     *kapas*, p. 64.  
     *macracantha*, p. 64.  
     *oyena*, p. 64.  
     *poieti*, p. 64.  
     *punctatum*, p. 64.  
*Zanclus cornutus*, p. 64.  
*zebrinus*, *Fundulus*, p. 75.  
*Zena-chopterus dispar*, p. 62.  
     *philippinus*, p. 62.  
*zonata*, *Seriola*, p. 54.  
*zonifer*, *Eriopsis*, p. 29.  
*zosterophora*, *Archamia*, p. 63.  
*Zunasia chinensis*, p. 61.  
*zygaena*, *Sphyrna*, p. 53.